

SYSTEM PROGRAMMER 8940



Description

The System Programmer is designed to enable the user to program all aspects of the GEM80 Range of programmable controllers and is available in a number of foreign languages. The 8940 System Programmer provides full programming, documentation and monitoring facilities for:

- 1) GEM80 ladder diagram language controllers.
- 2) Programmable Serial Communications and GEM80 BASIC language controllers.
- 3) GEM80 colour graphic processors.
- 4) GEM80 MAP Interface.

This stand alone programmer is easy to use with tactile keys, a green screen VDU, on board battery

backed RAM and program storage facilities built in. It also has interfaces for serial or parallel printers for hard copy records.

The programmer is housed in a robust metal case ruggedly constructed for use in harsh industrial environments and is fitted with strong carrying handles.

In built flexibility enables programming of either locally or remote mounted controllers (in a multidrop configuration) and can also be used as a computer console for transfer of programs when a computer is used to archive the same.

A high speed digital tape and micro floppy disc with a capacity of 656K byte is fitted to the 8940 for enhanced program storage capabilities.

Features

- Conventional typewriter keyboard layout.
- Menu driven.
- Key switch protects against unauthorised operation.
- Off-line capability.
- Rung comments — 6 lines of 50 characters each per rung are available for comments on GEM80 ladder diagram program.
- Mnemonics — up to 7 alpha-numeric characters for identifying program elements.
- Data table comments — 100 characters.
- Socket for audio tape connection for uploading and downloading programs stored on audio tape (compatible with 8920 Portable Programmer).

CEGELEC

INDUSTRIAL CONTROLS

Specifications

1. Memory Size

460K bytes are available for instructions, preset data, mnemonics and comments.

Typically this could consist of:
32K (32768) Instructions (128 Kbytes)
16K (16384) Preset values (32 Kbytes)
8K (8192) Mnemonics (128 Kbytes)
1400 Data comments (76 Kbytes)
800 Rung comments (96 Kbytes)

Maximum capacity
40960 instructions
32640 P locations
Mnemonics and Comments limited only by total memory capacity

2. Foreign Language Texts

Screen displays and print-outs may be in English, German, French, Spanish and Italian. The language chosen is selected on the initial menu. Once selected the programmer remains in that language until a new language is selected. Where the operator needs to press a letter key to select an option (e.g. TYPE "Y" FOR YES), the same key is used as in English.

A new programmer link message is introduced to inform the GEM of the language in use.

When connected to a GEM80/140, GEM80/300 or GEM80/700, some screen text is generated by the GEM itself. Where possible this is translated by the programmer.

Foreign language text is held in a separate EPROM from the system software so that more languages can be offered as a choice of plug-in EPROMS.

3. Message Editor

Text in P table may be edited in the System Programmer store.

4. Multiple Copies of Prints

The operator is given the option of producing multiple copies of any print-out.

5. Micro-Floppy Disc (Optional)

The 8940 Programmer has the facility of using either the digital tape or the disc for program loading and dumping. The disc option will have the following advantages over the digital tape.

— speeding up the load/dump process by a factor of 20.

— copying long programs in just one disc (up to 656 Kbytes)

The unit will have the facility of formatting discs to the ECMA/ISO formats. This is selected on the initial menu, so disc copying becomes a simple task.

6. External Connections

Power

3 pin IEC connector at rear
3 metre lead supplied

Longer leads may be assembled by the user
88 to 264 V a.c. (without adjustment)
96 to 250 V d.c. (without adjustment)
(45 to 63Hz)

GEM80 Serial Port (socket 4)

15 pin D-type female connector
3 metre lead supplied
Longer leads up to 500 metres may be assembled by the user
ESP protocol 20mA loop
Standard messages and 9.6 KBauds for communication with GEM80 Controllers
"Block" messages for high communications with new GEM80 systems.

Parallel Printer Port (socket 1)

25 Pin D-Type female connector
"Centronics" compatible

Serial Printer Port or Computer Console Mode (socket 3)

25 Pin D-Type female connector
Option of RS232 or 20mA loop

Auxiliary Serial Port (socket 2)

25 Pin D-Type female connector
RS422 interface
Software selectable as alternative interface for GEM80 serial port
Multidrop capability up to fifteen tributaries and variable signalling rate for remote connection to several new GEM80 systems, e.g. GEM80/310 (note that if RS 422 interface is used to connect programmer to GEM, then leads up to 1200 metres may be used)

Composite Video output facility to be used when a bigger display is needed (i.e. for demonstration) Note that this option is only fitted when required.

7. Power Supply

96 to 264V ac Single Phase
45-63Hz
96-250V dc
125W max consumption.

8. Temperature operating storage

0 to 40°C
-20 to 70°C.

9. Humidity

10 to 90% non-condensing

10. Dimensions

447 x 270 x 456mm. (17.6 x
10.6 x 18in)

11. Weight

14kg (31 lb)

Ordering Codes

System Programmer for English,
French and German with disc
storage and digital tape 8940-4001

Optional Extras

Carrying case: 40Y-4288-01

Digital tape to ISO-3407/ECMA34:
78801/222

3 1/2 inch micro-floppy disc:
78801/239

Additional Information

If you require any further information or wish to discuss an application in detail, do not hesitate to contact our GEM80 representative.



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